

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: HARDEE Examiner #: _____ Date: 6/23
 Art Unit: 1751 Phone Number 305-5599 Serial Number: 107 106,702
 Mail-Box and Bldg/Room Location: 9B36 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): Robert Dykstra, Gregory Minsola

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Whatever you can find. Claim 2
 is more specific. Thanks.

4/10/01
 CR =
 107 727,695

zip

STAFF USE ONLY

Searcher: <u>EA</u>	Type of Search	Vendors and cost where applicable
Searcher Phone #: _____	NA Sequence (#) _____	STN <u>\$187.42</u>
Searcher Location: _____	AA Sequence (#) _____	Dialog _____
Date Searcher Picked Up: _____	Structure (#) <u>(1)</u>	Questel/Orbit _____
Date Completed: <u>6-24-03</u>	Bibliographic <u>(and)</u>	Dr. Link _____
Searcher Prep & Review Time: <u>10</u>	Litigation _____	Lexis/Nexis _____
Clerical Prep Time: _____	Fulltext _____	Sequence Systems _____
Online Time: <u>60</u>	Patent Family _____	WWW/Internet _____
	Other _____	Other (specify) _____

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FILE 'REGISTRY' ENTERED AT 17:01:31 ON 24 JUN 2003
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L1 FILE 'LREGISTRY' ENTERED AT 16:19:44 ON 24 JUN 2003
STR

L2 FILE 'HCAPLUS' ENTERED AT 16:49:09 ON 24 JUN 2003
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L4 229 S MIRACLE ?/AU
L5 10 S L2 AND L3
L6 SEL L4 1-10 RN
52 S PROACCORD? OR PRO(2A)ACCORD?
1 S L4 AND L5
SEL L6 1 RN

L7 FILE 'REGISTRY' ENTERED AT 16:50:56 ON 24 JUN 2003
6 S E135-E140
SEL L7 1,2,3,4 RN
L8 4 S E141-E144

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2 S L8

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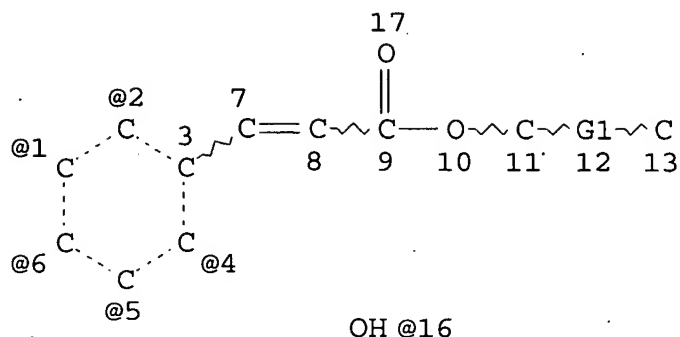
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L14 2 S L13 AND L9
L15 2 S L14 OR L9
L16 7 S L13 NOT L15

FILE 'REGISTRY' ENTERED AT 17:01:31 ON 24 JUN 2003

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L1 STR



VAR G1=O/N/S
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 NODE ATTRIBUTES:
 NSPEC IS RC AT 11
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
 L11 19 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 814 ITERATIONS
 SEARCH TIME: 00.00.01

19 ANSWERS

=> file hcaplus
 FILE 'HCAPLUS' ENTERED AT 17:01:44 ON 24 JUN 2003
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> d l15 1-2 ibib abs hitstr hitrn

L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:814085 HCAPLUS
 DOCUMENT NUMBER: 137:315791
 TITLE: Photo-activated pro-fragrances
 INVENTOR(S): Dykstra, Robert Richard; Miracle, Gregory Scot
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
 SOURCE: PCT Int. Appl., 34 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002083620 A1 20021024 WO 2002-US9167 20020327

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003004072 A1 20030102 US 2002-106707 20020326

PRIORITY APPLN. INFO.:

US 2001-282789P P 20010410

OTHER SOURCE(S): MARPAT 137:315791

AB A photo-activated pro-accord conjugate capable of releasing a fragrance raw material accord by the exposure to electromagnetic radiation is described. The conjugate has the formula [PHOTO]-O-CHR₁R₂XR₃ ([PHOTO] = photo-labile unit which upon exposure to electromagnetic radiation is capable of releasing a pro-accord unit; X = O, N, S; R₁, R₂ = moieties when taken together comprise an aldehyde or ketone fragrance raw material; R₃ = fragrance raw material alc., amine, thio compd.). The fragrance conjugates are useful for applications in cosmetics, e.g., a skin lotion, a cleanser, and a deodorant gel stick, laundry detergents, and a clay-based litter box. For example, (E)-3-(2-hydroxyphenyl)acrylic acid 1-heptyloxy-2-phenylethyl ester (I) was prepd. by reaction of 6.5 g of (E)-3-[2-(tert-butyldimethylsilanoxy)phenyl]acrylic acid and 5.4 g of (E)-2-(heptyloxy)ethenylbenzene to yield 7.2 g of the intermediate (E)-3-[2-(tert-butyldimethylsilanoxy)phenyl]acrylic acid 1-heptyloxy-2-phenylethyl ester; the intermediate was then treated with 4.7 g TBAF.cntdot.3H₂O to yield I.

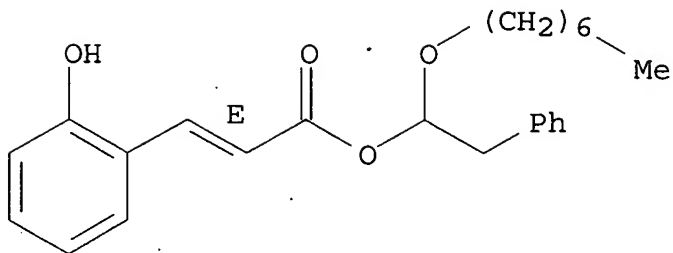
IT 472956-17-5P 472956-18-6P

(prepn. and uses of photo-activated fragrance conjugates)

RN 472956-17-5 HCAPLUS

CN 2-Propenoic acid, 3-(2-hydroxyphenyl)-, 1-(heptyloxy)-2-phenylethyl ester, (2E)- (9CI) (CA INDEX NAME)-

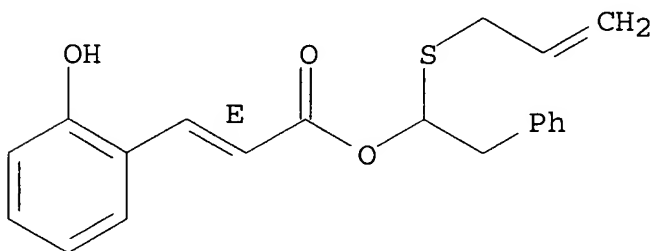
Double bond geometry as shown.



RN 472956-18-6 HCAPLUS

CN 2-Propenoic acid, 3-(2-hydroxyphenyl)-, 2-phenyl-1-(2-propenylthio)ethyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



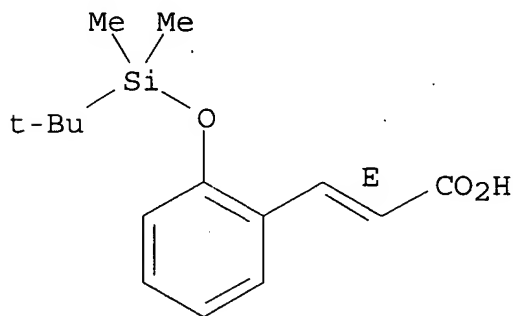
IT 238402-48-7

(prepn. and uses of photo-activated fragrance conjugates)

RN 238402-48-7 HCAPLUS

CN 2-Propenoic acid, 3-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



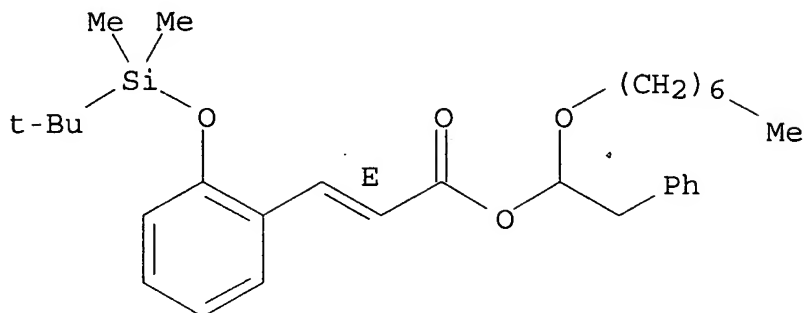
IT 472956-19-7P

(prepn. and uses of photo-activated fragrance conjugates)

RN 472956-19-7 HCAPLUS

CN 2-Propenoic acid, 3-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-, 1-(heptyloxy)-2-phenylethyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 472956-17-5P 472956-18-6P

(prepn. and uses of photo-activated fragrance conjugates)

IT 238402-48-7

(prepn. and uses of photo-activated fragrance conjugates)

IT 472956-19-7P

(prepn. and uses of photo-activated fragrance conjugates)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:551731 HCAPLUS

DOCUMENT NUMBER: 131:170173

TITLE: Preparation of arylacrylate esters as precursors
for organoleptic compounds

INVENTOR(S): Anderson, Denise; Frater, Georg

PATENT ASSIGNEE(S): Givaudan Roure (International) S.A., Switz.

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 936211	A2	19990818	EP 1999-810036	19990119
EP 936211	A3	19990825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
ZA 9900567	A	19990726	ZA 1999-567	19990126
CN 1227837	A	19990908	CN 1999-101847	19990202
MX 9901281	A	20000731	MX 1999-1281	19990204
BR 9900443	A	20000502	BR 1999-443	19990210
AU 9916430	A1	19991021	AU 1999-16430	19990212
AU 725999	B2	20001026		
JP 2000063328	A2	20000229	JP 1999-33906	19990212

US 6096918 A 20000801 US 1999-249384 19990212
 PRIORITY APPLN. INFO.: EP 1998-810114 A 19980213
 OTHER SOURCE(S): MARPAT 131:170173

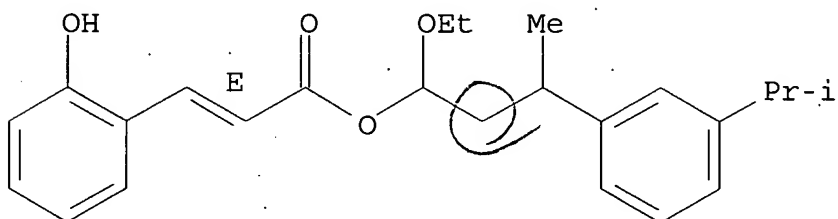
AB (E)-RZZ1CO2R1 [R = OH or NHR6; R1 = H, (arom.) hydrocarbyl, heterocyclyl, heteroaryl; R1 may be substituted by an ionic substituent; R6 = H, (un)satd. hydrocarbyl, aryl, etc.; Z = (un)substituted 1,2-phenylene or -naphthylene; Z1 = CR2:CH or CH:CR2; R2 = H, a straight or branched C1-C6 residue (sic), (un)substituted heterocyclyl, -aryl], which cyclize under use conditions to give coumarins having organoleptic and/or antimicrobial and/or optical brightening properties, were prepd. Thus, 2-(HO)C6H4CHO was condensed with Ph3P:CMcCO2Et to give (E)-2-(HO)C6H4CH:CMcCO2Et.

IT 238402-49-8P 238402-50-1P
 (prepn. of arylacrylate esters as precursors for organoleptic compds.)

RN 238402-49-8 HCAPLUS

CN 2-Propenoic acid, 3-(2-hydroxyphenyl)-, 1-ethoxy-3-[3-(1-methylethyl)phenyl]butyl ester, (2E)- (9CI) (CA INDEX NAME)

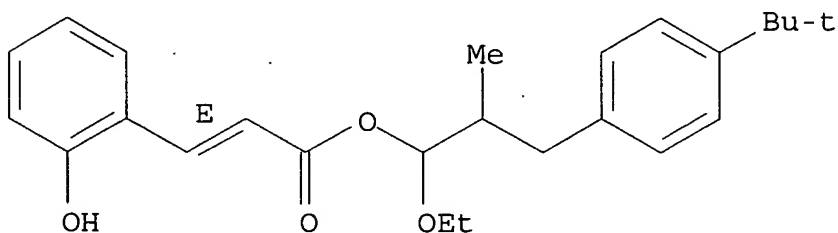
Double bond geometry as shown.



RN 238402-50-1 HCAPLUS

CN 2-Propenoic acid, 3-(2-hydroxyphenyl)-, 3-[4-(1,1-dimethylethyl)phenyl]-1-ethoxy-2-methylpropyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 238402-48-7P

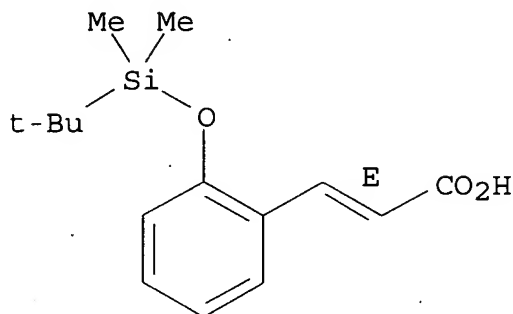
(prepn. of arylacrylate esters as precursors for organoleptic compds.)

RN 238402-48-7 HCAPLUS

CN 2-Propenoic acid, 3-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]

]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 238402-49-8P 238402-50-1P

(prepn. of arylacrylate esters as precursors for organoleptic compds.)

IT 238402-48-7P

(prepn. of arylacrylate esters as precursors for organoleptic compds.)

=> d l16 1-7 cbib abs hitstr hitrn

L16 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2003 ACS

2001:581649 Document No. 135:163628 Preparation of derivatives of known pesticides, with enhanced properties. Mulvihill, Mark Joseph; Shaber, Steven Howard; Kelly, Martha Jean (Rohm and Haas Company, USA). PCT Int. Appl. WO 2001056358 A2 20010809, 1646 pp.

DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US651 20010126. PRIORITY: US 2000-PV178878 20000128; US 2000-493865 20000128.

AB A very large no. of derivs. of known pesticides were prepd. The moieties substituted to the known pesticides enhance or favorably modify the activity and properties of the parent pesticide.

IT 353728-59-3P 353729-27-8P 353729-88-1P

353756-95-3P 353756-99-7P 353757-03-6P

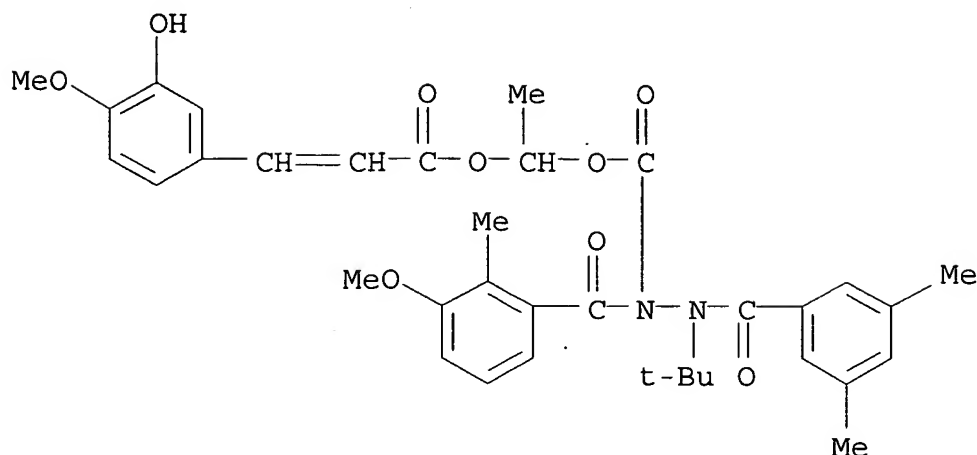
353757-30-9P 353757-31-0P

(prepn. as pesticide with enhanced properties)

RN 353728-59-3 HCAPLUS

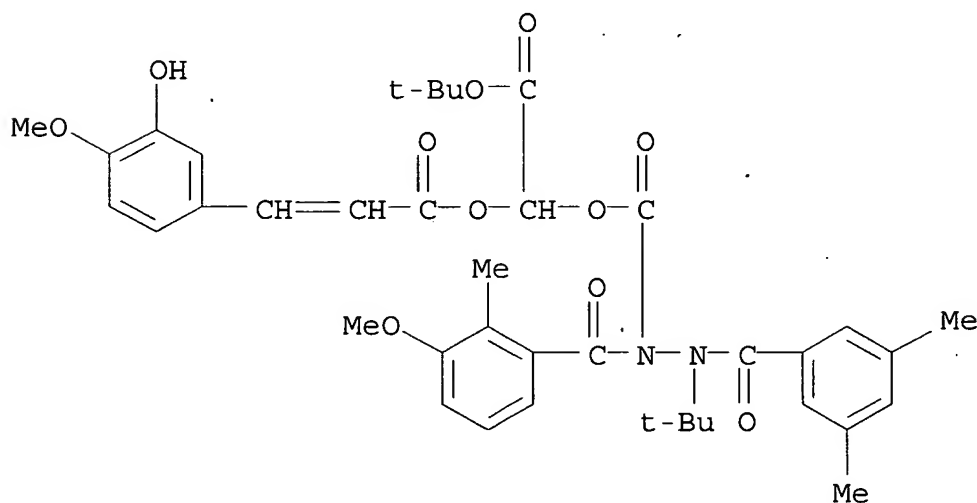
CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, 1-[[3-(3-hydroxy-4-methoxyphenyl)-1-oxo-2-propenyl]oxy]ethyl ester (9CI) (CA INDEX

NAME)



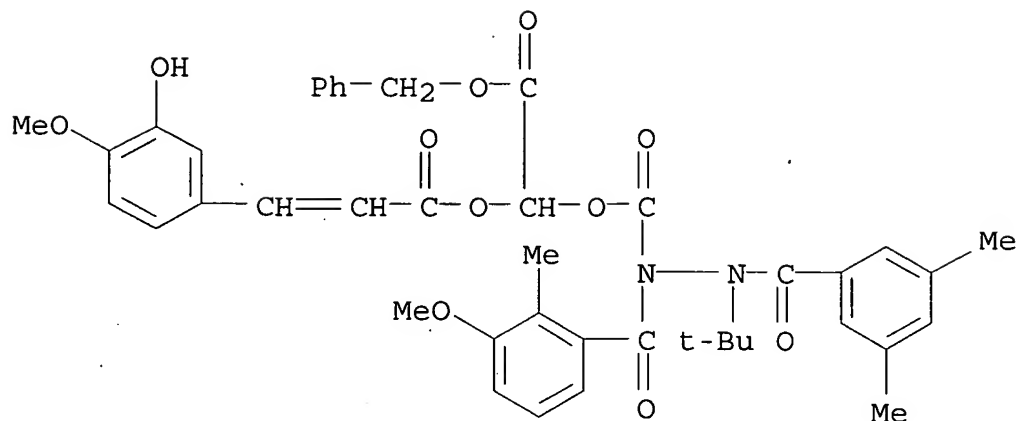
RN 353729-27-8 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, 2-(1,1-dimethylethoxy)-1-[[3-(3-hydroxy-4-methoxyphenyl)-1-oxo-2-propenyl]oxy]-2-oxoethyl ester (9CI) (CA INDEX NAME)



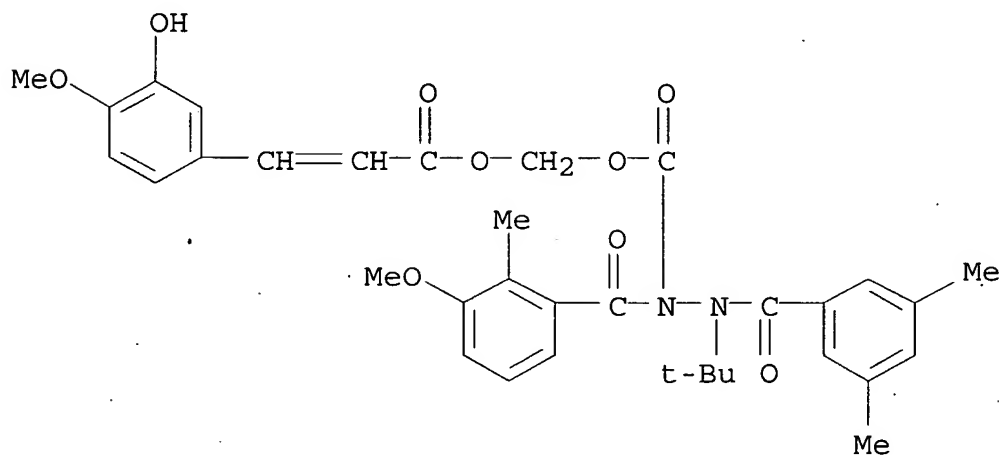
RN 353729-88-1 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, 1-[[3-(3-hydroxy-4-methoxyphenyl)-1-oxo-2-propenyl]oxy]-2-oxo-2-(phenylmethoxy)ethyl ester (9CI) (CA INDEX NAME)



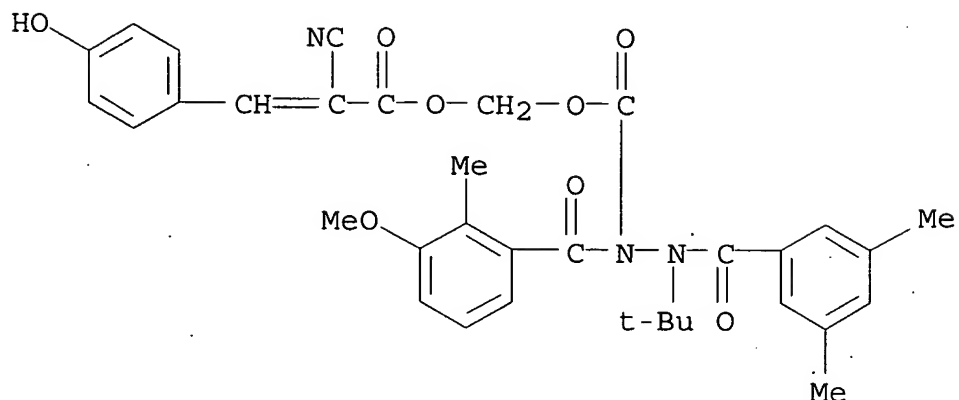
RN 353756-95-3 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, [[3-(3-hydroxy-4-methoxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA INDEX NAME)



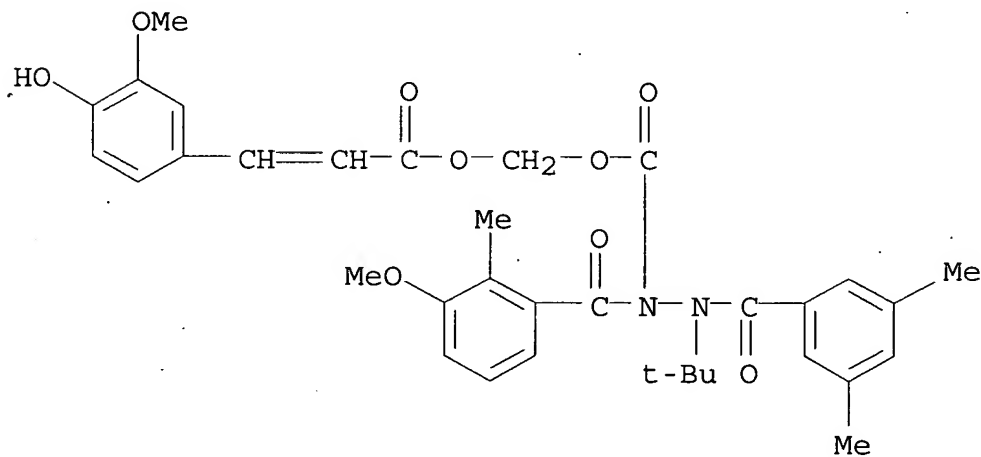
RN 353756-99-7 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, [[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA INDEX NAME)



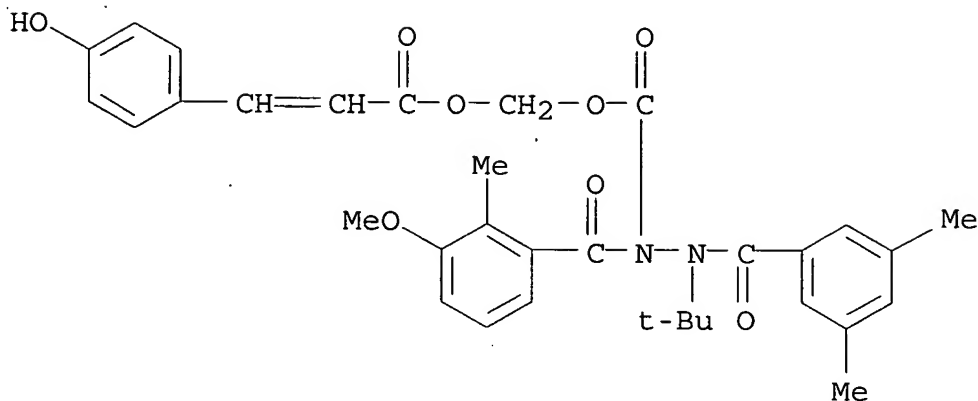
RN 353757-03-6 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, [[3-(4-hydroxy-3-methoxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA INDEX NAME)



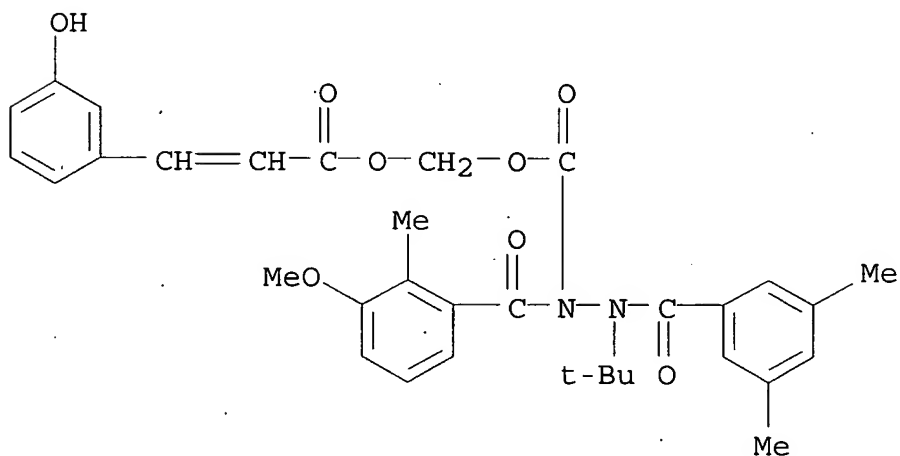
RN 353757-30-9 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, [[3-(4-hydroxy-3-methoxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA INDEX NAME)



RN 353757-31-0 HCAPLUS

CN Hydrazinecarboxylic acid, 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)-1-(3-methoxy-2-methylbenzoyl)-, [[3-(3-hydroxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA INDEX NAME)



IT 353728-59-3P 353729-27-8P 353729-88-1P
 353756-95-3P 353756-99-7P 353757-03-6P
 353757-30-9P 353757-31-0P
 (prepn. as pesticide with enhanced properties)

L16 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2003 ACS

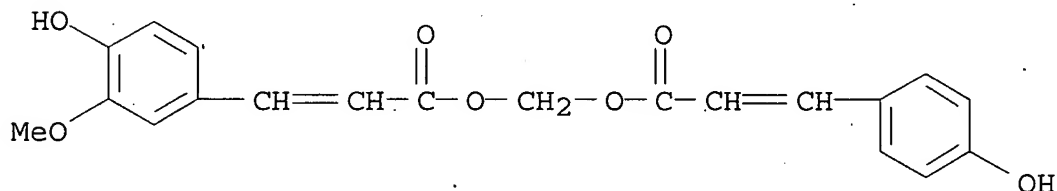
1999:721621 Document No. 132:44664 Curcuma longa inhibits TNF-.alpha. induced expression of adhesion molecules on human umbilical vein endothelial cells. Gupta, Babita; Ghosh, Balaram (Molecular Immunology and Immunogenetics Laboratory, Centre for Biochemical Technology, University of Delhi, Delhi, 110007, India). International Journal of Immunopharmacology, 21(11), 745-757 (English) 1999. CODEN: IJIMDS. ISSN: 0192-0561. Publisher: Elsevier Science Ltd..

AB Identification of non-steroidal anti-inflammatory small mols. is very important for the development of anti-inflammatory drugs. The authors demonstrate here that out of three compds., viz diferuloylmethane, p-coumaroylferuloylmethane and di-p-coumaroylmethane, present in the Et acetate ext. of *Curcuma longa*, diferuloylmethane is most potent in inhibiting TNF-.alpha. induced expression of ICAM-1, VCAM-1 and E-selectin on human umbilical vein endothelial cells. The inhibition by diferuloylmethane is time dependent and is reversible. By using RT-PCR, the authors demonstrate that it inhibits the induction of steady state transcript levels of ICAM-1, VCAM-1 and E-selectin, and therefore it may interfere with the transcription of their genes.. As diferuloylmethane significantly blocks the cytokine induced transcript levels for the leukocyte adhesion mols., it may be interfering at an early stage of signaling event induced by TNF-.alpha..

IT 89499-18-3, p-Coumaroylferuloylmethane
(*Curcuma longa* and its constituents inhibit TNF-.alpha. induced expression of adhesion mols. on human umbilical vein endothelial cells in relation to anti-inflammatory activity)

RN 89499-18-3 HCAPLUS

CN 2-Propenoic acid, 3-(4-hydroxy-3-methoxyphenyl)-, [[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA INDEX NAME)



IT 89499-18-3, p-Coumaroylferuloylmethane
(*Curcuma longa* and its constituents inhibit TNF-.alpha. induced expression of adhesion mols. on human umbilical vein endothelial cells in relation to anti-inflammatory activity)

L16 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2003 ACS

1997:176615 Document No. 126:258686 The effect of propolis and its components on eicosanoid production during the inflammatory response. Mirzoeva, O. K.; Calder, P. C. (Department of Biochemistry, University of Oxford, UK). Prostaglandins, Leukotrienes and Essential Fatty Acids, 55(6), 441-449 (English) 1996. CODEN: PLEAEU. ISSN: 0952-3278. Publisher: Churchill Livingstone.

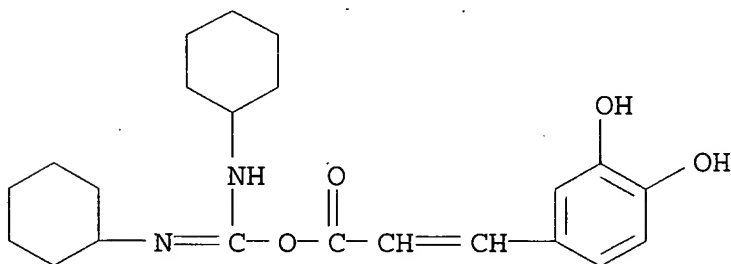
AB To investigate the possible mechanism of the therapeutic action of propolis, we studied: (a) the effect of propolis, its components, caffeic acid phenethyl ester (CAPE), caffeic acid (CA), quercetin and naringenin, as well as the synthetic compds. indomethacin (IM) and nordihydroguaiaretic acid (NDGA), and a novel lipoxigenase

inhibitor N,N'-dicyclohexyl-O-(3,4-dihydroxycinnamoyl)isourea (DCHCU) on eicosanoid prodn. by mouse peritoneal macrophages in vitro; (b) the effect of IM, NDGA, CA, CAPE, DCHCU and propolis on eicosanoid prodn. during acute inflammation in vivo; and (c) the ex vivo and in vivo effect of dietary propolis on arachidonic acid metab. The ethanol ext. of propolis suppressed prostaglandin and leukotriene generation by murine peritoneal macrophages in vitro and during zymosan-induced acute inflammation in vivo. Dietary propolis significantly suppressed the lipoxygenase pathway of arachidonic acid metab. during inflammation in vivo. CAPE was the most potent modulator of the arachidonic acid cascade among the propolis components examd.

IT 167386-85-8
(effects of propolis and its components on eicosanoid prodn. during the inflammatory response)

RN 167386-85-8 HCAPLUS

CN 2-Propenoic acid, 3-(3,4-dihydroxyphenyl)-, anhydride with N,N'-dicyclohexylcarbamidic acid (9CI) (CA INDEX NAME)



IT 167386-85-8
(effects of propolis and its components on eicosanoid prodn. during the inflammatory response)

L16 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS

1996:663193 Document No. 125:323996 Inhibition of ICE-family cysteine proteases rescues murine lymphocytes from lipoxygenase inhibitor-induced apoptosis. Mirzoeva, Olga K.; Yaqoob, Parveen; Knox, Kirstine A.; Calder, Philip C. (A.N. Belozersky Institute of Physico-Chemical Biology, Moscow State University, Moscow, 119899, Russia). FEBS Letters, 396(2,3), 266-270 (English) 1996. CODEN: FEBLAL. ISSN: 0014-5793. Publisher: Elsevier.

AB Two lipophilic derivs. of caffeic acid which inhibit lipoxygenase, caffeic acid phenethyl ester (CAPE) and N,N'-dicyclohexyl-O-(3,4-dihydroxycinnamoyl)-isourea (DCHCU), reduced the proliferative response of murine splenocytes to Con A in vitro. Both CAPE and DCHCU induced apoptosis in murine thymocyte cultures as verified by flow cytometry and by visualization of DNA with acridine orange staining. CAPE-induced apoptosis was inhibited by z-VAD-fmk, an inhibitor of the interleukin-1.beta.-converting enzyme family of cysteine proteases. We suggest that the lipoxygenase pathway of

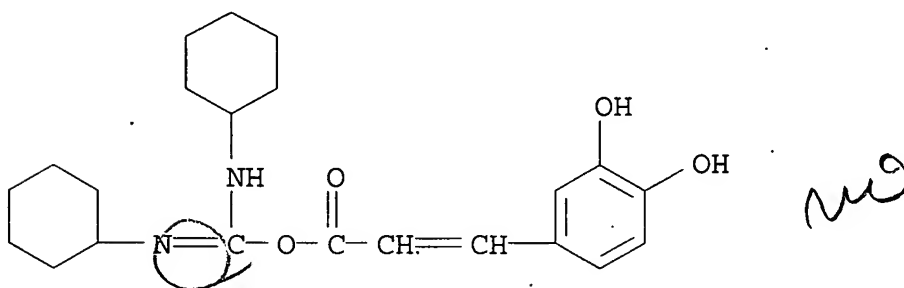
arachidonic acid metab. plays a role in regulating lymphocyte responses such as proliferation and apoptosis.

IT 167386-85-8

(inhibition of ICE-family cysteine proteases rescues murine lymphocytes from lipoxygenase inhibitor-induced apoptosis)

RN 167386-85-8 HCAPLUS

CN 2-Propenoic acid, 3-(3,4-dihydroxyphenyl)-, anhydride with N,N'-dicyclohexylcarbamidic acid (9CI) (CA INDEX NAME)



IT 167386-85-8

(inhibition of ICE-family cysteine proteases rescues murine lymphocytes from lipoxygenase inhibitor-induced apoptosis)

L16 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2003 ACS

1995:725615 Document No. 123:160776 Lipophilic derivatives of caffeic acid as lipoxygenase inhibitors with antioxidant properties.

Mirzoeva, O. K.; Sud'ina, G. F.; Pushkareva, M. A.; Korshunova, G. A.; Sumbatyan, N. V.; Varfolomeev, S. D. (Belozersky Inst. Physico-Chem. Biol., Lomonosov Moscow State Univ., Moscow, 119899, Russia). Bioorganicheskaya Khimiya, 21(2), 143-51 (Russian) 1995. CODEN: BIKHD7. ISSN: 0132-3423. Publisher: Nauka.

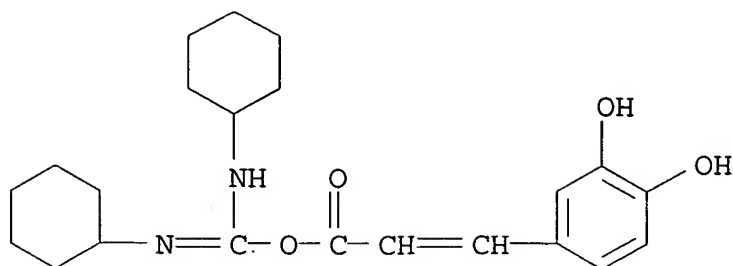
AB We have prepd. two lipophilic derivs. of caffeic acid at the carboxylic function; caffeic acid phenethyl ester, an active component of propolis, and N,N'-dicyclohexyl-O-(3,4-dihydroxycinnamoyl)isourea. Both substances inhibit barely 5-lipoxygenase and soybean 15-lipoxygenase at micromolar concns. The inhibition is uncompetitive, dose-dependent and reversible. The caffeic acid derivs. also exhibit antioxidant properties and at a concn. 5-10 .mu.M completely block the prodn. of the reactive oxygen species in human neutrophils and in the cell-free xanthine/xanthine oxidase system.

IT 167386-85-8

(lipophilic derivs. of caffeic acid as lipoxygenase inhibitors with antioxidant properties)

RN 167386-85-8 HCAPLUS

CN 2-Propenoic acid, 3-(3,4-dihydroxyphenyl)-, anhydride with N,N'-dicyclohexylcarbamidic acid (9CI) (CA INDEX NAME)



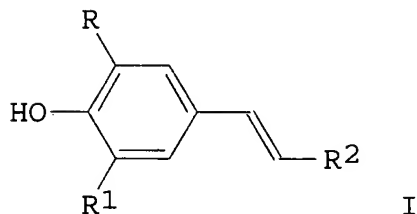
IT 167386-85-8

(lipophilic derivs. of caffeic acid as lipoxygenase inhibitors with antioxidant properties)

L16 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2003 ACS

1984:570958 Document No. 101:170958 Novel synthesis of phenolic lignin precursors using iminium salts of p-hydroxycinnamic acids. Duran, E.; Gorrichon, L.; Gazaux, L.; Tisnes, P. (Lab. Synth. Physicochim. Org., Univ. Paul Sabatier, Toulouse, 31062, Fr.). Tetrahedron Letters, 25(26), 2755-8 (French) 1984. CODEN: TELEAY. ISSN: 0040-4039.

GI



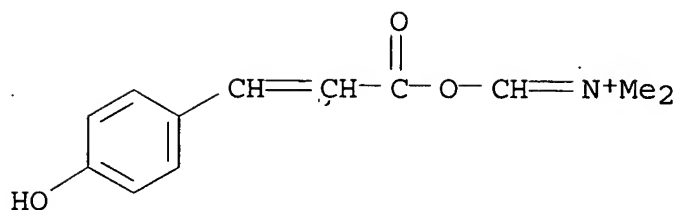
AB Cinnamic acids I (R = R1 = H, OMe; R = H, R1 = OMe; R2 = CO2H) were treated with ClCH:N+Me2Cl- to give I (R2 = CO2CH:N+Me2Cl-) which on redn. with LiAlH(OCMe3)3 or LiAlH4 gave I (R2 = CHO, CH2OH), resp. Treatment of I (R = H, R1 = OMe, R2 = CO2CH:N+Me2Cl-) with MeOH or PhSLi gave I (R2 = CO2Me, COSPh), resp.

IT 92446-09-8P 92446-10-1P 92446-11-2P

(prep. and redn. of)

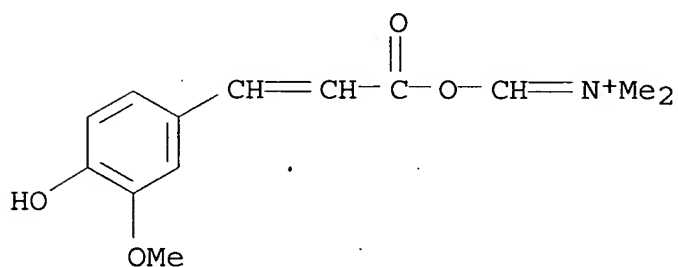
RN 92446-09-8 HCAPLUS

CN Methanaminium, N-[[[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]oxy]methylene]-N-methyl-, chloride (9CI) (CA INDEX NAME)



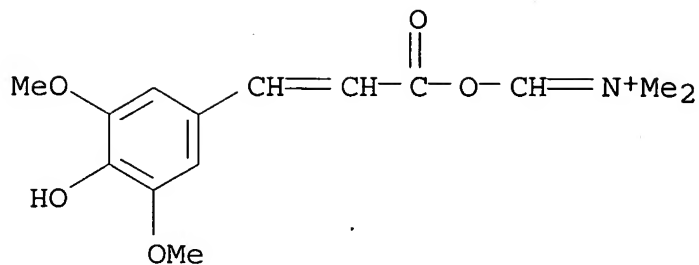
● Cl^-

RN 92446-10-1 HCAPLUS
CN Methanaminium, N-[[[3-(4-hydroxy-3-methoxyphenyl)-1-oxo-2-propenyl]oxy]methylene]-N-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl^-

RN 92446-11-2 HCAPLUS
CN Methanaminium, N-[[[3-(4-hydroxy-3,5-dimethoxyphenyl)-1-oxo-2-propenyl]oxy]methylene]-N-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IT 92446-09-8P 92446-10-1P 92446-11-2P
(prepn. and redn. of)

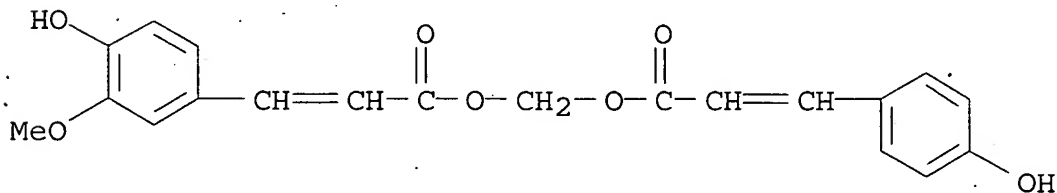
L16 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2003 ACS
1984:151003 Document No. 100:151003 Validity of the oriental
medicines. Part 53. Liver-protective drugs. Part 8.
Antihepatotoxic principles of *Curcuma longa* rhizomes. Kiso,
Yoshinobu; Suzuki, Yuriko; Watanabe, Noriko; Oshima, Yoshiteru;
Hikino, Hiroshi (Pharm. Inst., Tohoku Univ., Sendai, Japan). *Planta
Medica*, 49(3), 185-7 (English) 1983. CODEN: PLMEAA. ISSN:
0032-0943.

AB An ext. of the crude drug Ukon, from the rhizomes of *C. longa*,
prevented CCl₄-induced liver injury in vivo and in vitro. After
fractionation, the curcuminoids possessed significant
antihepatotoxic action. The liver-protective effects of ferulic
acid [1135-24-6] and p-coumaric acid [7400-08-0] and their resp.
analogs (probable metabolites of the curcuminoids) were also
evaluated.

IT 89499-18-3
(liver toxicity prevention by)

RN 89499-18-3 HCAPLUS

CN 2-Propenoic acid, 3-(4-hydroxy-3-methoxyphenyl)-,
[[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]oxy]methyl ester (9CI) (CA
INDEX NAME)



IT 89499-18-3
(liver toxicity prevention by)

Hardee 10/106,707

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